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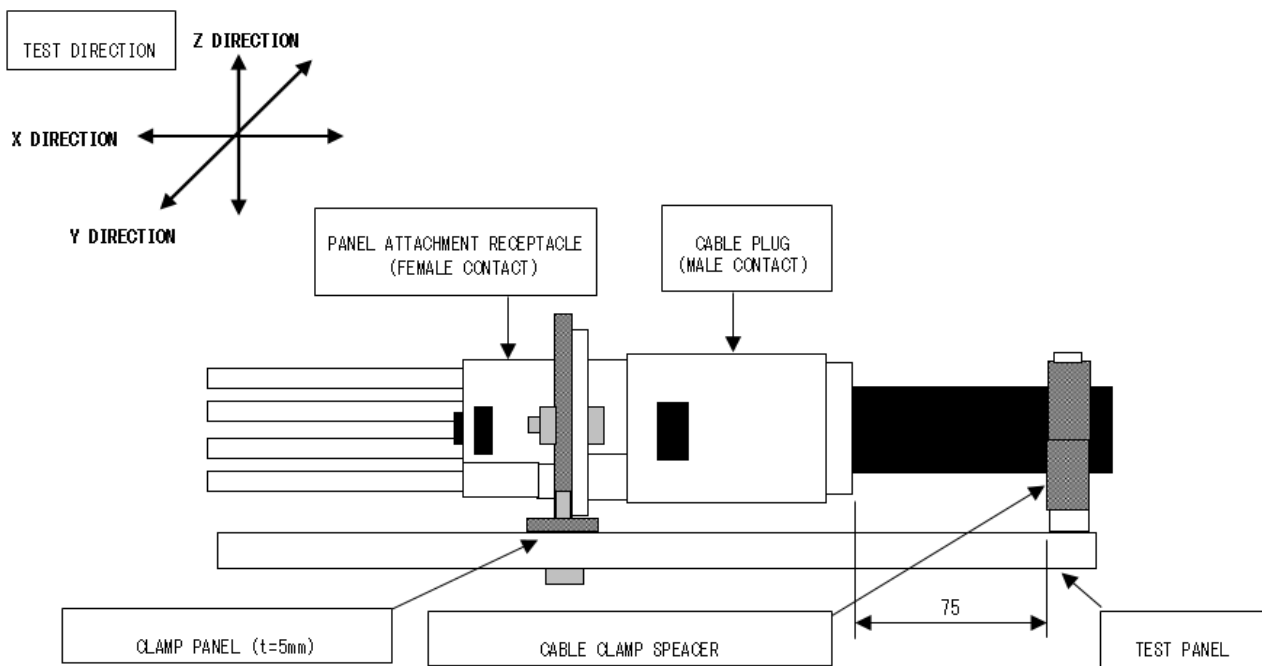
APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	① -40°C TO +105°C	STORAGE TEMPERATURE RANGE	② -55°C TO +85°C	
	VOLTAGE	300 V AC , 300 V DC	—	—	
	CURRENT	※ 5 A / PIN ※ Varies based on current-carrying capacity of cable.	APPLICABLE CABLE	AWG#24 TO AWG#28 (UL-STYLE : UL1007)	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz) MAX.	③ 5 mΩ MAX. (CONTACT SPACING)	X	-	
		③ 40 mΩ MAX. (SHELL SPACING)	X	-	
INSULATION RESISTANCE	500 V DC.	5000 MΩ MIN.	X	-	
VOLTAGE PROOF	2200 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES	APPLICABLE CONTACT.	INSERTION FORCE : 3 N MAX. WITHDRAWAL FORCE : 0.3 N MIN.	X	-	
CONNECTOR INSERTION AND WITHDRAWAL FORCES	APPLICABLE CONNECTOR.	INSERTION FORCE : 98 N MAX. WITHDRAWAL FORCE : 14.7 N MIN.	X	-	
CONTACT (LANCE) RETENTION FORCES	APPLY AXIAL PULL OUT FORCE AT THE SPEED RATE OF 25mm/min TO THE TERMINAL, AND MEASURE THE FORCE WHEN THE TERMINAL IS PULL OUT.	29.4N MIN	X	-	
CONDUCTOR PRESSURE BONDING FORCES	CRIMP THE CABLE ONLY AT THE CONDUCTOR, AND RETENTION FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL FORCE IS APPLIED.	① AWG#24 : 22.3 N MIN. ② AWG#26 : 13.4 N MIN. ③ AWG#28 : 8.9 N MIN.	X	-	
CABLE CLAMP STRENGTH	APPLY PULL FORCE OF 98 N IN MATING DIRECTION FOR A MINUTE.	① CONTACTS SHOULD BE RETAINED. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-	
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-	
VIBRATION	FREQUENCY : 10 TO 55 Hz, SINGE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. (REFERENCE FOR APPENDED FIGURE)	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-	
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 6 DIMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURACTIONS OF PULSE 11 ms.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-	
△	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK			APPROVED	MN. KENJO	20211222
ABOVE SPECIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS. Unless otherwise specified, refer to IEC 60512.			CHECKED	KG. OKITA	20211221
			DESIGNED	HY. MATSUDA	20211221
			DRAWN	HY. MATSUDA	20211221
			Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.
HRS	SPECIFICATION SHEET		PART NO.	PQ50S2-2428PCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0236-0038-0-00	△ 1/3

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SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 15 TO 35 → 105 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 5 CYCLES.	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX. ② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
HEAT RESISTANCE	EXPOSED AT 105 °C ± 2 °C, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
COLD RESISTANCE	EXPOSED AT -55 °C ± 3 °C, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
HUMIDITY	EXPOSED AT 60 °C ± 2 °C, 90 TO 95 %, 96 h, AND COMBINE THE APPLICABLE CONNECTORS.	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 10 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. (AFTER IT DRIER) ③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	X	-
MIXED FLOWING GAS	EXPOSED IN SO ₂ 10 ppm, H ₂ S 3 ppm, 70 TO 80 %, 24 h, AND COMBINE THE APPLICABLE CONNECTORS.	NO HEAVY CORROSION RUIN THE FUNCTION.	X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h, AND COMBINE THE APPLICABLE CONNECTORS.	NO HEAVY CORROSION RUIN THE FUNCTION.	X	-
<p>① ① THE PRODUCT PERFORMANCE IS GUARANTEED ONLY IN THE TEMPERATURE ADEQUATE PEOPLE'S ACTIVITIES. ② INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ③ SPECIFICATIONS FOR ASSEMBLED ITEM WITH APPLICABLE HOUSING.</p> <p>② PACKING MATERIALS ARE NOT INCLUDED.</p> <p>③ CABLE CONDUCTOR RESISTANCE IS NOT INCLUDED.</p>				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-397158-00-00	
HRS	SPECIFICATION SHEET	PART NO.	PQ50S2-2428PCFA	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL0236-0038-0-00	△ 2/3

APPENDED FIGURE

A CABLE PLUG (MALE CONTACT) AND A PANEL ATTACHMENT RECEPTACLE (FEMALE CONTACT)
VIBRATION TEST METHOD



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO.

ELC-397158-00-00



SPECIFICATION SHEET

PART NO.

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